
Sequence Listing was accepted with existing errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: markspencer

Timestamp: Wed Jun 27 07:06:46 EDT 2007

Validated By CRFValidator v 1.0.2

Application No: 10590457 Version No: 1.0

Input Set:

Output Set:

Started: 2007-06-21 12:02:59.623

Finished: 2007-06-21 12:03:29.347

Elapsed: 0 hr(s) 0 min(s) 29 sec(s) 724 ms

Total Warnings: 116
Total Errors: 598

No. of SeqIDs Defined: 255

Err	or code	Error Description
E	355	Empty lines found between the amino acid numbering and the
E	321	No. of Bases conflict, this line has no nucleotides SEQID (5)
E	300	Invalid codon found Leu SEQID (5) POS: 96
E	300	Invalid codon found Ser SEQID (5) POS: 100
E	300	Invalid codon found Ser SEQID (5) POS: 104
E	300	Invalid codon found Leu SEQID (5) POS: 108
E	300	Invalid codon found Lys SEQID (5) POS: 112
E	300	Invalid codon found Gly SEQID (5) POS: 116
E	300	Invalid codon found Glu SEQID (5) POS: 120
E	300	Invalid codon found Glu SEQID (5) POS: 124
E	300	Invalid codon found Val SEQID (5) POS: 128
E	300	Invalid codon found Cys SEQID (5) POS: 132
E	300	Invalid codon found Ile SEQID (5) POS: 136
E	300	Invalid codon found Asp SEQID (5) POS: 140
E	300	Invalid codon found Gly SEQID (5) POS: 144
E	300	Invalid codon found Ile SEQID (5) POS: 148
E	300	Invalid codon found Ile SEQID (5) POS: 152
E	300	Invalid codon found Tyr SEQID (5) POS: 156
E	355	Empty lines found between the amino acid numbering and the
E	321	No. of Bases conflict, this line has no nucleotides SEQID (5)

Output Set:

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Err	or code	Error Description
E	300	Invalid codon found Tyr SEQID (5) POS: 480
E	300	Invalid codon found Gly SEQID (5) POS: 484
E	300	Invalid codon found Ile SEQID (5) POS: 488
E	300	Invalid codon found Ser SEQID (5) POS: 492 This error has occured more than 20 times, will not be displayed
E	355	Empty lines found between the amino acid numbering and the
E	321	No. of Bases conflict, this line has no nucleotides SEQID (5)
E	355	Empty lines found between the amino acid numbering and the
E	321	No. of Bases conflict, this line has no nucleotides SEQID (5)
E	336	Empty lines found between the proteins and the dna
E	336	Empty lines found between the proteins and the dna
E	336	Empty lines found between the proteins and the dna
E	336	Empty lines found between the proteins and the dna
E	336	Empty lines found between the proteins and the dna
E	336	Empty lines found between the proteins and the dna
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E	336	Empty lines found between the proteins and the dna

Output Set:

Started: 2007-06-21 12:02:59.623

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Elapsed: 0 hr(s) 0 min(s) 29 sec(s) 724 ms

Total Warnings: 116 Total Errors: 598 No. of SeqIDs Defined: 255

Error code	Error Description
E 336	Empty lines found between the proteins and the dna
Е 336	Empty lines found between the proteins and the dna
Е 336	Empty lines found between the proteins and the dna
E 336	Empty lines found between the proteins and the dna
E 336	Empty lines found between the proteins and the dna
Е 336	Empty lines found between the proteins and the dna This error has occured more than 20 times, will not be displayed
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (22)
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (23)
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (23)
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (23)
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (23)
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (26)
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (28)
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (34)

Output Set:

Started: 2007-06-21 12:02:59.623

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Elapsed: 0 hr(s) 0 min(s) 29 sec(s) 724 ms

Total Warnings: 116
Total Errors: 598
No. of SeqIDs Defined: 255

Err	or code	Error Description
E	355	Empty lines found between the amino acid numbering and the
E	321	No. of Bases conflict, this line has no nucleotides SEQID (40)
E	355	Empty lines found between the amino acid numbering and the
E	321	No. of Bases conflict, this line has no nucleotides SEQID (42)
Ε	355	Empty lines found between the amino acid numbering and the
E	321	No. of Bases conflict, this line has no nucleotides SEQID (44)
E	355	Empty lines found between the amino acid numbering and the
E	321	No. of Bases conflict, this line has no nucleotides SEQID (45)
E	355	Empty lines found between the amino acid numbering and the
E	321	No. of Bases conflict, this line has no nucleotides SEQID (45)
Ε	355	Empty lines found between the amino acid numbering and the
E	321	No. of Bases conflict, this line has no nucleotides SEQID (50)
E	355	Empty lines found between the amino acid numbering and the
E	321	No. of Bases conflict, this line has no nucleotides SEQID (64)
E	355	Empty lines found between the amino acid numbering and the proteins
E	321	No. of Bases conflict, this line has no nucleotides SEQID (82) POS (160)
W	213	Artificial or Unknown found in <213> in SEQ ID (115)
W	213	Artificial or Unknown found in <213> in SEQ ID (116)
W	213	Artificial or Unknown found in <213> in SEQ ID (121)
W	213	Artificial or Unknown found in <213> in SEQ ID (122)
W	213	Artificial or Unknown found in <213> in SEQ ID (123)

Output Set:

Started: 2007-06-21 12:02:59.623 **Finished:** 2007-06-21 12:03:29.347

Elapsed: 0 hr(s) 0 min(s) 29 sec(s) 724 ms

Total Warnings: 116
Total Errors: 598
No. of SeqIDs Defined: 255
Actual SeqID Count: 255

Err	or code	Error Description
W	213	Artificial or Unknown found in <213> in SEQ ID (124)
W	213	Artificial or Unknown found in <213> in SEQ ID (125)
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Е	224	$<\!220\!>$, $<\!223\!>$ section required as $<\!213\!>$ has Artificial sequence or Unknown in SEQID (187)

SEQUENCE LISTING

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<110> Cirpus, Petra
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      Wu, Guohai
      Datla, Nagamani
<120> METHOD FOR PRODUCING POLYUNSATURATED FATTY ACIDS IN TRANSGENIC
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<140> 10590457
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<151> 2005-02-23
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			_	-		gac Asp 55	_		_	_	_					192
	_			_		ccc Pro	_	-	-			-	-			240
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_						tca Ser				_			_			336
		_				ctg Leu	_	-	_		-	_				384
	-		-			atg Met 135				_	_					432
	-		_			cag Gln			_							480
			_	_		ggc Gly			_							528
_		_	_	_		aat Asn	_			_	_			_		576
		-		-		gac Asp						-				624
_	-	_				tca Ser	_			_	_			_		672

210 215 220

_	_	tat Tyr			_	-		_		_	_					720
_		cag Gln	_		_			_	_	_	_	-	_	_		768
		tat Tyr	_		_		_	_		-				_	_	816
		aca Thr 275	_	_	-	_						_		_		864
		tcg Ser	_	_	_			-	_		_	_				912
		gcg Ala					_					_		_		960
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		atg Met				_					_					1056
	_	aac Asn 355		_					_		_				-	1104
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 35 40 45
His Ser Gln Glu Ala Phe Asp Lys Leu Lys Arg Met Pro Lys Ile Asn
 50
               55
                            60
Pro Ser Ser Glu Leu Pro Pro Gln Ala Ala Val Asn Glu Ala Gln Glu
65 70 75 80
Asp Phe Arg Lys Leu Arg Glu Glu Leu Ile Ala Thr Gly Met Phe Asp
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Ala Ser Pro Leu Trp Tyr Ser Tyr Lys Ile Ser Thr Thr Leu Gly Leu
              105 110
     100
Gly Val Leu Gly Tyr Phe Leu Met Val Gln Tyr Gln Met Tyr Phe Ile
   115 120 125
Gly Ala Val Leu Leu Gly Met His Tyr Gln Gln Met Gly Trp Leu Ser
          135
                            140
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175

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Asp	Asp 210	Val	Thr	Arg	Ala	Ser 215	Pro	Ile	Ser	Arg	Lys 220	Leu	Ile	Gln	Phe
Gln 225	Gln	Tyr	Tyr	Phe	Leu 230	Val	Ile	Суз	Ile	Leu 235	Leu	Arg	Phe	Ile	Trp 240
Cys	Phe	Gln	Ser	Val 245	Leu	Thr	Val	Arg	Ser 250	Leu	Lys	Asp	Arg	Asp 255	Asn
			260					265					270	Ala	
		275					280					285		Ser	
	290					295					300		_	Gly	
305					310					315				Lys	320
				325					330					Ile 335 Phe	
			340					345					350	Pro	
		355					360					365		Gln	
	370					375					380			Val	_
385	11011	шец	110	т ў т	390	11011	110	шец	110	395	GIU	OTY	шец	vai	400

Leu Leu Arg Tyr Leu Ala Val Phe Ala Arg Met Ala Glu Lys Gln Pro

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Asp	Pro	Glu	Ile 20	Leu	Ile	Gly	Thr	Phe 25	Ser	Tyr	Leu	Leu	Leu 30	Lys	Pro	
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_		_					gtt Val	_	_						-	192
_				_			gcc Ala				_			_		240
		_	_				ggc Gly	-		_	_	_			-	288
							tcg Ser									336

105

110

100

-	ttc Phe			_						-	_	-	 _	384
	gtc Val 130			_	_							_	 _	432
	tac Tyr				_					_			_	480
	ttc Phe		-					_						528
	gcc Ala	_		_		_	-	_	_				 _	576
	atc Ile													624
	gtc Val 210		_		_	_			_	_		_	 -	672
	aac Asn		-	-		-	-		_			-		720
	tac Tyr	_	_	_	_	_	_		_	-	_		 _	768
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			20					25					30		

Leu Leu Arg Asn Ser Gly Leu Val Asp Glu Lys Lys Gly Ala Tyr Arg
35 40 45

Thr Ser Met Ile Trp Tyr Asn Val Leu Leu Ala Leu Phe Ser Ala Leu 50 55 60

Ser Phe Tyr Val Thr Ala Thr Ala Leu Gly Trp Asp Tyr Gly Thr Gly 65 70 75 80

Ala Trp Leu Arg Gln Thr Gly Asp Thr Pro Gln Pro Leu Phe Gln 85 90 95

Cys Pro Ser Pro Val Trp Asp Ser Lys Leu Phe Thr Trp Thr Ala Lys 100 105 110

Ala Phe Tyr Tyr Ser Lys Tyr Val Glu Tyr Leu Asp Thr Ala Trp Leu 115 120 125

Arg Val Ser Phe Leu Gln Ala Phe His His Phe Gly Ala Pro Trp Asp 130 135 140

Phe Phe Asn Ser Phe Ile His Thr Ile Met Tyr Thr Tyr Tyr Gly Leu 165 170 175

Thr Ala Ala Gly Tyr Lys Phe Lys Ala Lys Pro Leu Ile Thr Ala Met 180 185 190

Gln Ile Cys Gln Phe Val Gly Gly Phe Leu Leu Val Trp Asp Tyr Ile 195 200 205

Asn Val Pro Cys Phe Asn Ser Asp Lys Gly Lys Leu Phe Ser Trp Ala 210 215 220

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1				5					10					15		

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Ala Lys His Asn Ala Ala Thr Ile Ser Thr Gln Glu Arg Leu Cys Ser
20 25 30

ctg tct tcg ctc aaa ggc gaa gaa gtc tgc atc gac gga atc atc tat 144 Leu Ser Ser Leu Lys Gly Glu Glu Val Cys Ile Asp Gly Ile Ile Tyr

35 40 45

gac ctc caa tca ttc gat cat ccc ggg ggt gaa acg atc aaa atg ttt 192
Asp Leu Gln Ser Phe Asp His Pro Gly Gly Glu Thr Ile Lys Met Phe
50 55 60

ggt ggc aac gat gtc act gta cag tac aag atg att cac ccg tac cat 240 Gly Gly Asn Asp Val Thr Val Gln Tyr Lys Met Ile His Pro Tyr His 65 70 75 80